

CLAIMS

1. An interface device for providing an interface between testing equipment and an integrated circuit to be tested, the interface device comprising a body member, a movable member mounted on the body member for movement with respect to the body member and a number of elongate contact members mounted on the movable member, for movement with the movable member; each elongate contact member comprising a contact end, adapted to contact a bond pad of an integrated circuit to be tested, and a body portion, the central axis of the body portion and the contact end being substantially parallel to each other.
2. An interface device according to claim 1, wherein each contact member comprises a spring shaped portion located between the contact end and the body portion.
3. An interface device according to claim 2, wherein the spring shaped portion comprises a first portion and a second portion, the portions being at an angle to each other and to the body portion and the contact end.
4. An interface device according claim 3, wherein the angle between the first and the second portions is approximately 45° to 135°.

5. An interface device according to claim 4, wherein the angle between the first and the second portions is approximately 60° to 135° .
6. An interface device according to any of claims 3 to 5, wherein the first portion is longer than the second portion so that the central axis of the contact end is not coincident with the central axis of the body portion.
7. An interface device according to claim 6, wherein the central axis of the contact end and the central axis of the body portion are separated by a distance approximately equal to 1.5 times the diameter of the body portion.
8. An interface device according to claim 6 or claim 7, wherein the first portion is coupled to the contact end and the second portion is coupled to the body portion.
9. An interface device according to any of claims 2 to 8, wherein the contact end and the spring portion are tapered towards the end of the contact end.
10. An interface device according to any of the preceding claims, and further comprising a printed circuit board to which the end of the contact member opposite to the contact end is coupled, and the printed circuit board being adapted to permit testing equipment to be coupled to the printed circuit board.

11. An interface device according to any of the preceding claims, wherein the movable member is coupled to the body member by an elastically flexible member.
12. An interface device according to claim 11, wherein the body member, the elastically flexible member and the movable member are formed from a single piece of material.
13. An interface device according to claim 12, wherein portions of the single piece of material are removed to form the elastically flexible member.
14. An interface device according to any of claims 11 to 13, wherein the body member, the elastically flexible member and the movable member are fabricated from a metal material.
15. An interface device according to any of claims 11 to 14, wherein the elastically flexible member is in the form of an elastic beam which is generally U-Shaped.
16. An interface device according to any of claims 11 to 15, wherein the movable member is coupled to the body member by a number of elastically flexible members.
17. An interface device according to any of the preceding claims, wherein the body member encircles the movable member.
18. An interface device according to any of the preceding

claims, wherein the movable member defines an aperture into which the contact members protrude.

19. An interface device according to any of the preceding claims, and further comprising an excitation device to move the movable member with respect to the body member.